Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 06/19/2009	Task #: 200906191749900l001	Request #: 20090619174990
Procedure: HI VOR/DME OR TACAN RWY 14 AMDT 5		Airport ID: KMFD	Airport: MANSFIELD LAHM REGIONAL		Reimbursable #:
City: MANSFIELD	ST: OH	GPS #:		Estimated Chart Date: 02/09/2012	FICO #:
Fac ID: MFD	Fac. Type: VORTAC	Specialist: DEANNA FIELDS			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/27/2011	11/03/2011	JOSE ALFONSO	
QA:	11/03/2011	11/04/2011	STEVEN SZUKALA	
Liaison:	11/04/2011		Terrell	

Procedure Comments: **Remark Type:** INFORMATION

pkg 3 of 4

MANSFIELD, OH MANSFIELD LAHM REGIONAL (KMFD) HI VOR/DME OR TACAN RWY 14, AMDT 5 ENROUTE-NO FC: 12.13.11 PUB: 2.9.12

ATTACHED FORMS: 8260-13; 8260-20; 8260-9; 8260-2(S): BIARD-INT, REV 2; CUNSO-INT, ORIG; ZASUR-INT, ORIG; (INFO ONLY) MANSFIELD (MFD) VTAC, REV 19.

CONTACT: JOSE ALFONSO/STEVE BARNETT, AJV-353 LEADS, 405.954.6378/9568:

MANSFIELD, OHIO

AL-860 (FAA)

HI-VOR/DME or TACAN RWY 14

MANSFIELD LAHM RGNL (MFD)

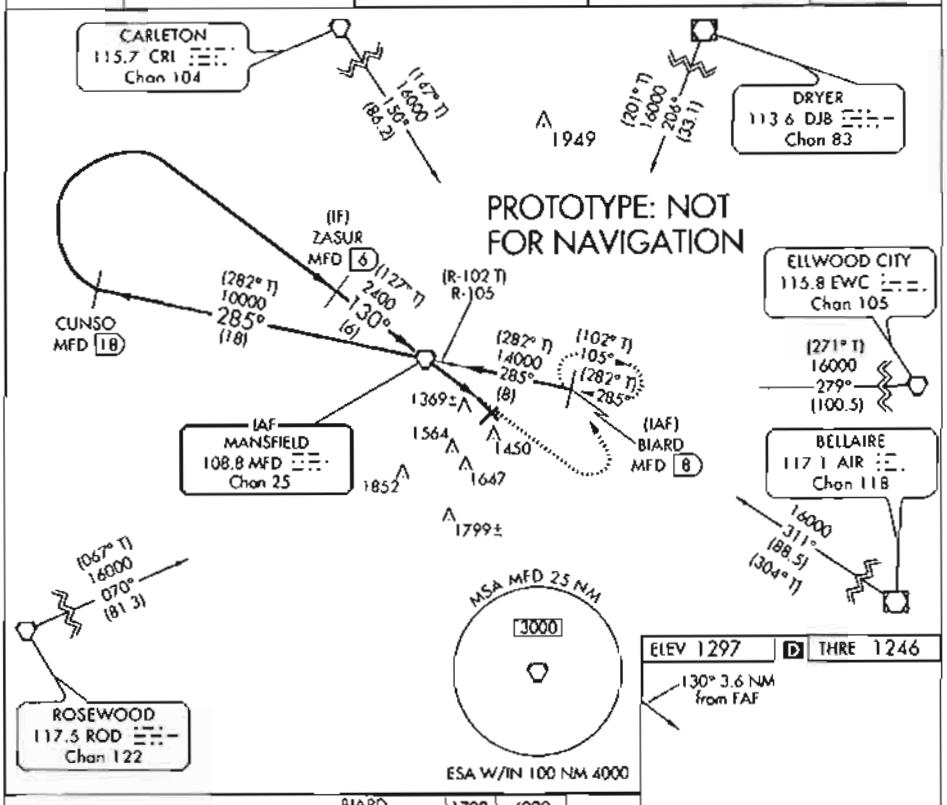
VORTAC MFD	APP CRS	Rwy Idg	9001
108.8	130°	THRE	1246
Chan 25		Apt Elev	1297

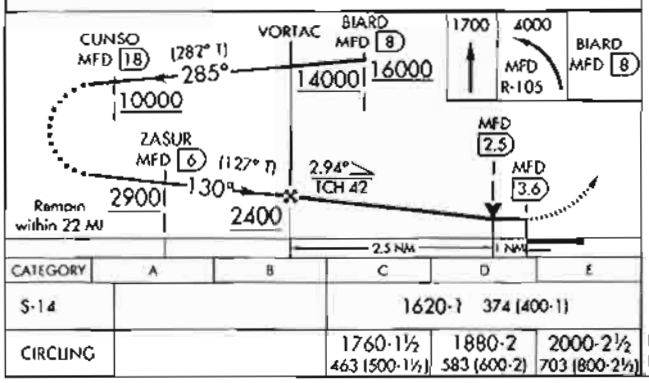
VDP NA with Marion altimeter setting. When local altimeter setting not received, use Marion altimeter setting and increase all MDA 120 feet, S-14 C/D/E visibility to 1⅜ mile and Circling Cat D to 2¼ mile, Cat E to 3 mile.

ASR

MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 on MFD VORTAC R-105 to BAIRD INT/MFD 8 DME and hold, continue climb-in-hold to 4000

ATIS	MANSFIELD APP CON *	MANSFIELD TOWER *	GND CON	UNICOM
125.3	124.2 390.8	119.8(CTAF) 325.8	121.8 325.8	122.95





CATEGORY	A	B	C	D	E
S-14			1620-1 374 (400-1)		
CIRCLING			1760-1½ 463 (500-1½)	1880-2 583 (600-2)	2000-2½ 703 (800-2½)

HIRL Rwys 5-23 and 14-32 C

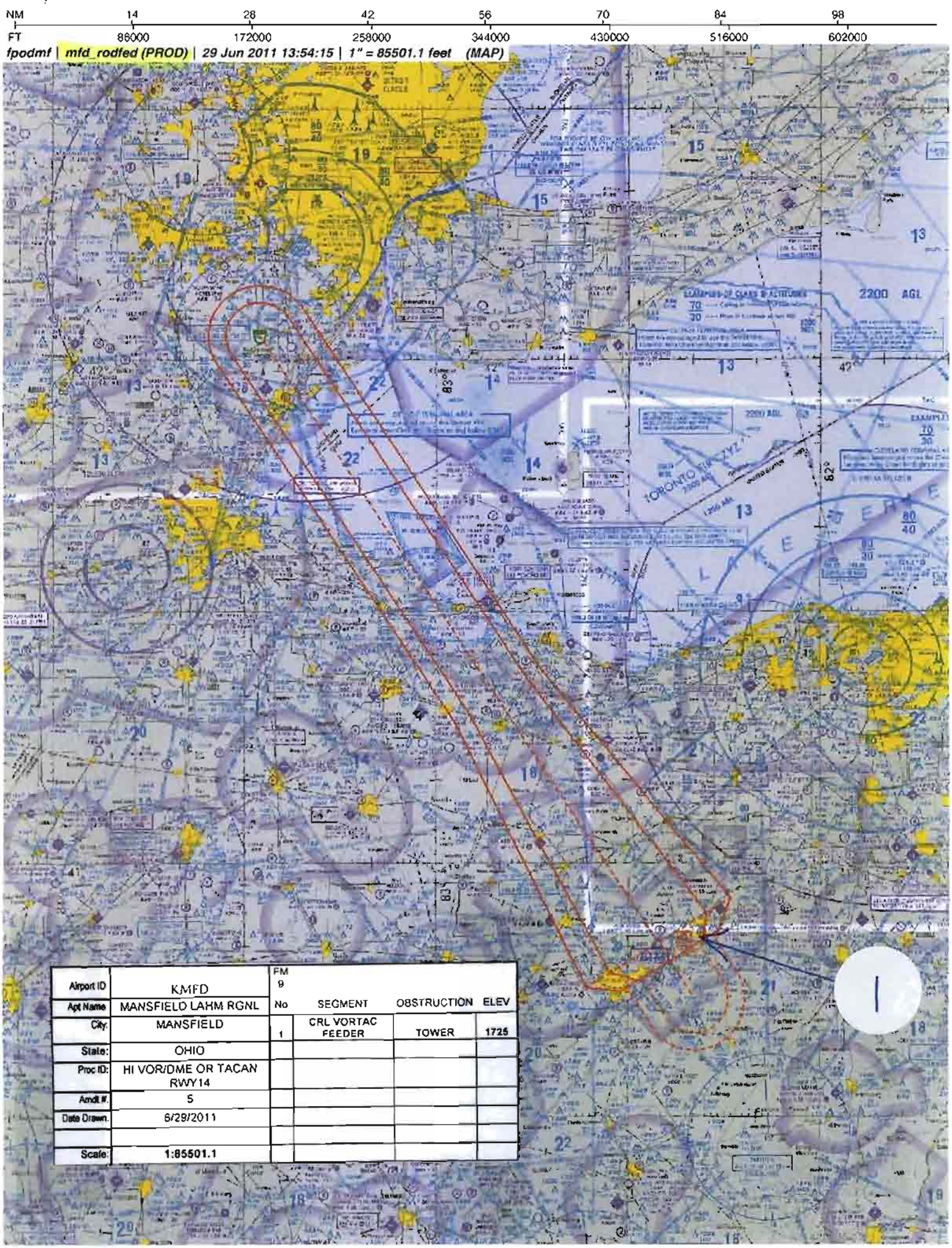
REIL Rwys 5 and 23 C

MANSFIELD, OHIO
Amdt 5 FIG

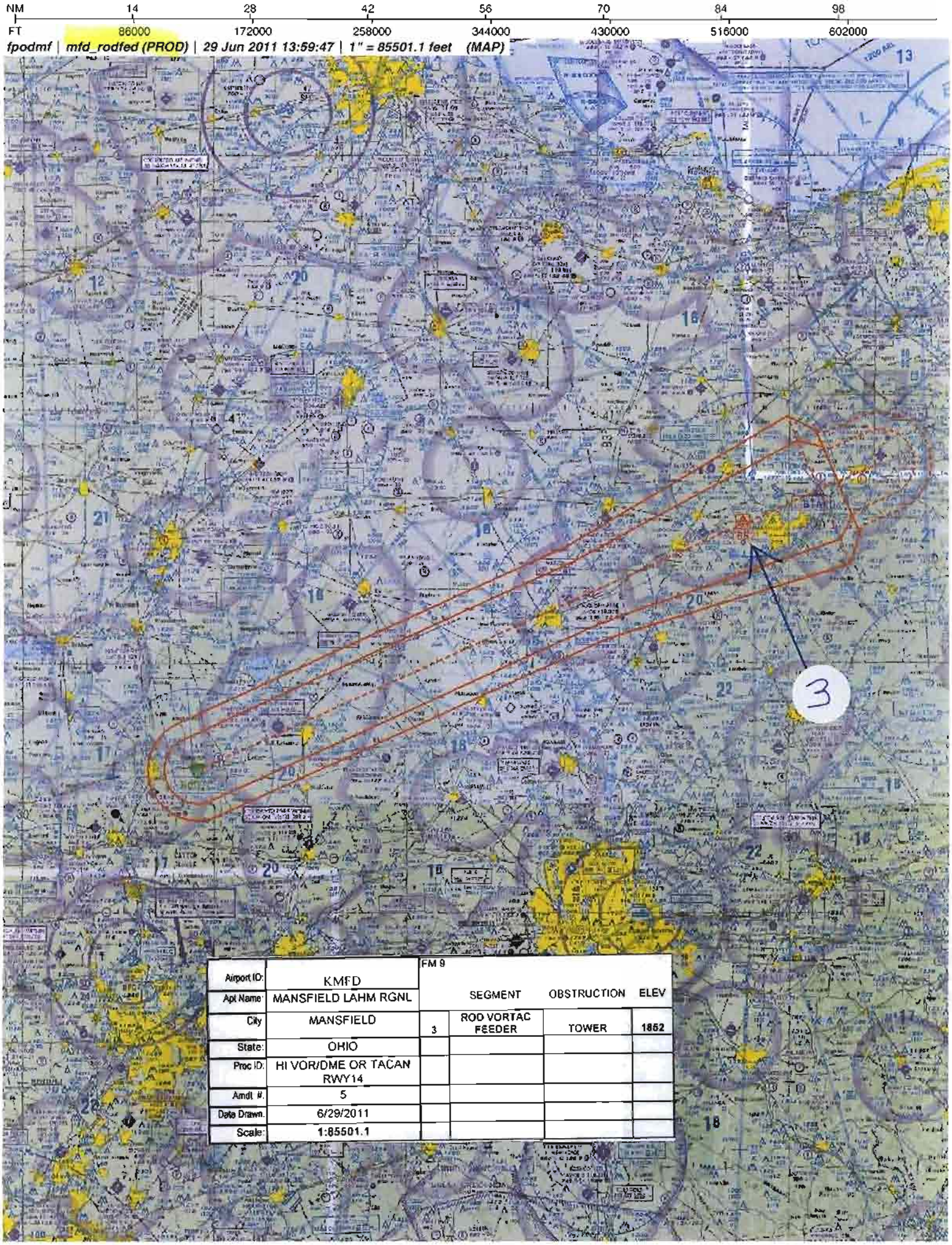
40°49'N - 82°31'W

MANSFIELD LAHM RGNL (MFD)

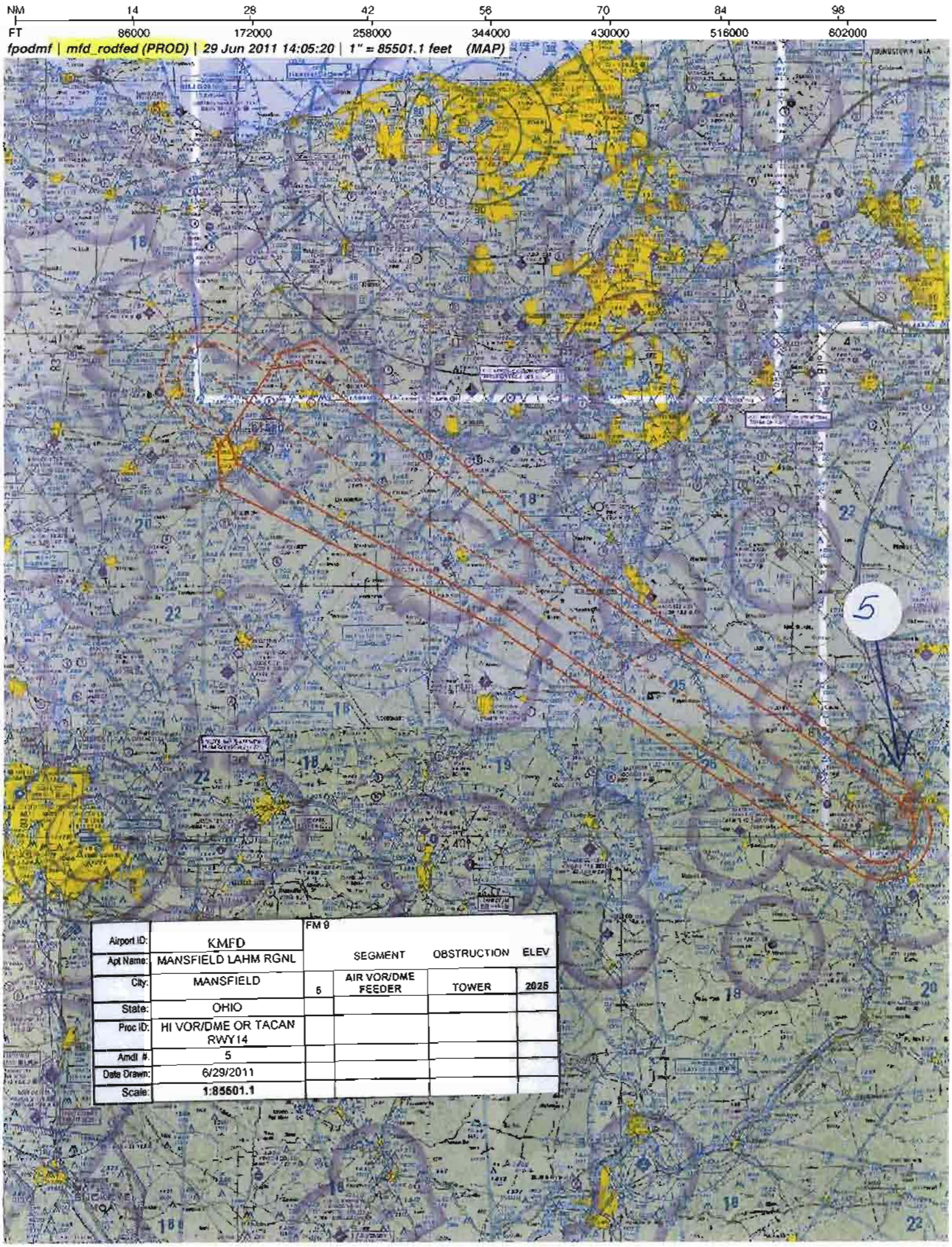
HI-VOR/DME or TACAN RWY 14

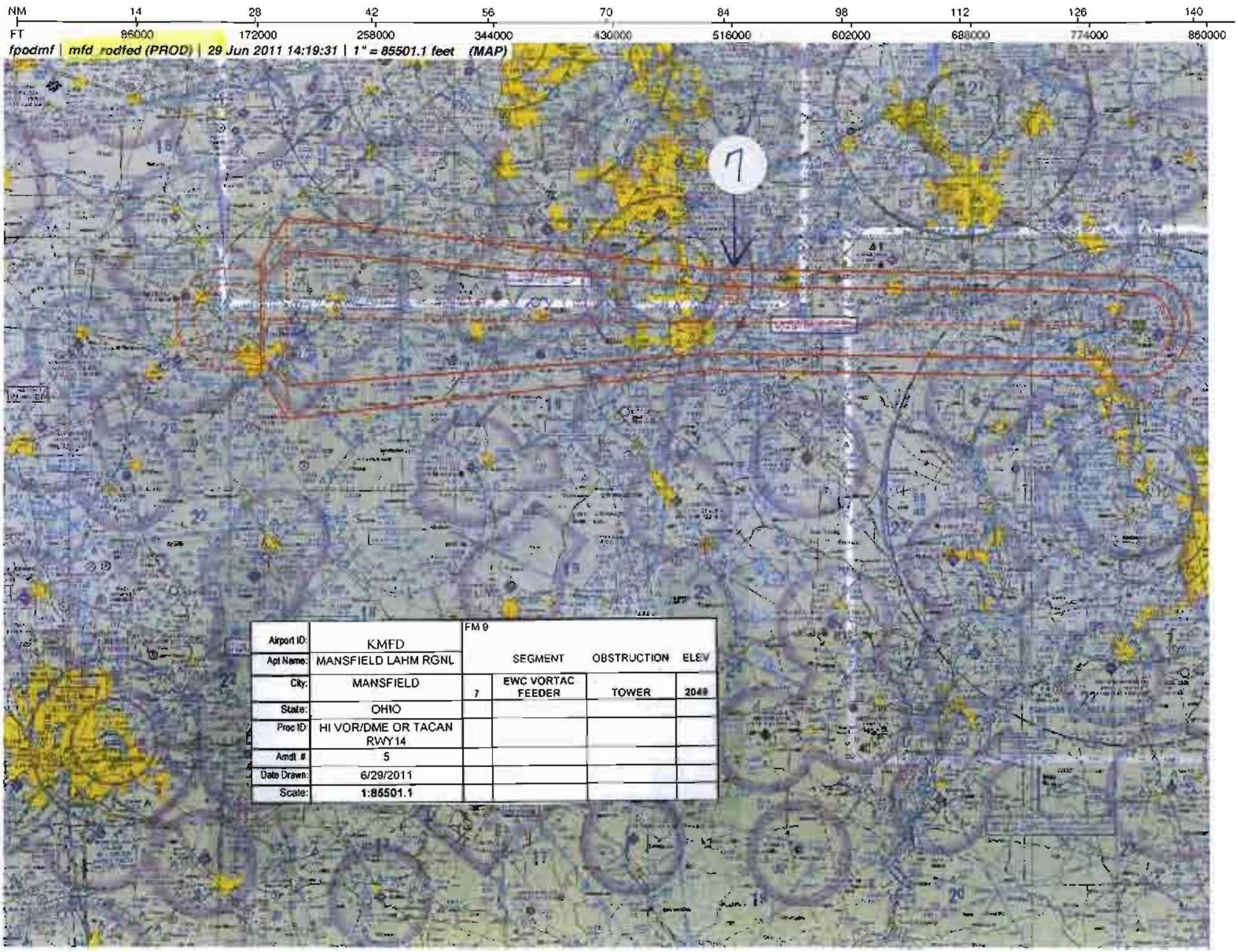


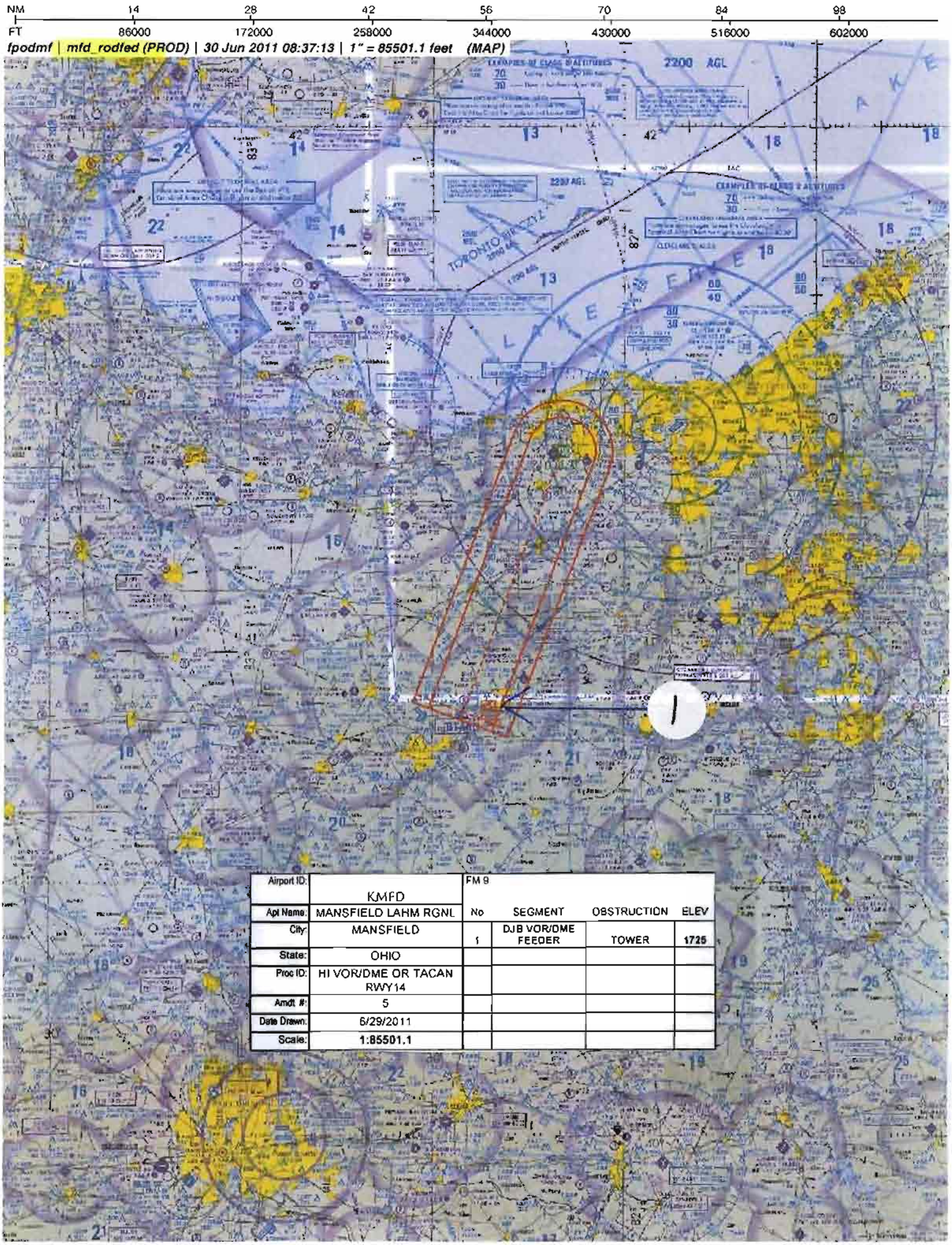
Airport ID	KMFD	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name	MANSFIELD LAHM RGNL	1	CRL VORTAC FEEDER	TOWER	1725
City:	MANSFIELD				
State:	OHIO				
Proc ID:	HI VOR/DME OR TACAN RWY14				
Amdt #:	5				
Date Drawn:	6/29/2011				
Scale:	1:85501.1				



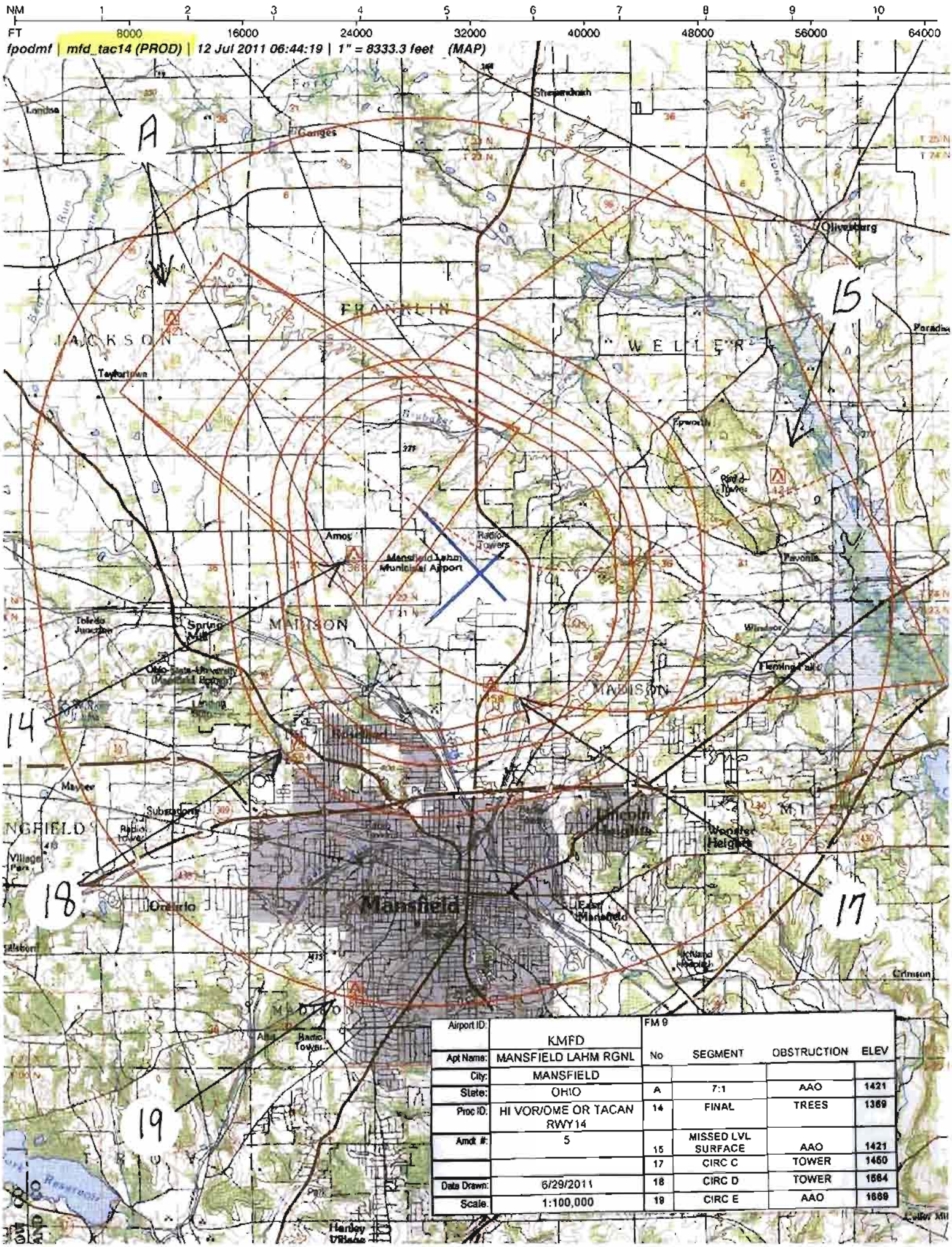
		FM 9			
Airport ID:	KMFD		SEGMENT	OBSTRUCTION	ELEV
Apt Name:	MANSFIELD LAHM RGNL				
City:	MANSFIELD	3	ROD VORTAC FEEDER	TOWER	1852
State:	OHIO				
Proc ID:	HI VOR/DME OR TACAN RWY14				
Amdt #:	5				
Date Drawn:	6/29/2011				
Scale:	1:85501.1				


NM 14 28 42 56 70 84 98
FT 86000 172000 258000 344000 430000 516000 602000
fpodmf | mfd_rodfed (PROD) | 29 Jun 2011 14:05:20 | 1" = 85501.1 feet (MAP)
5
FM 9
SEGMENT
OBSTRUCTION
ELEV
AIR VOR/DME FEEDER
TOWER
2025
Airport ID: KMFD
Apt Name: MANSFIELD LAHM RGNL
City: MANSFIELD
State: OHIO
Proc ID: HI VOR/DME OR TACAN RWY14
Amdt #: 5
Date Drawn: 6/29/2011
Scale: 1:85501.1

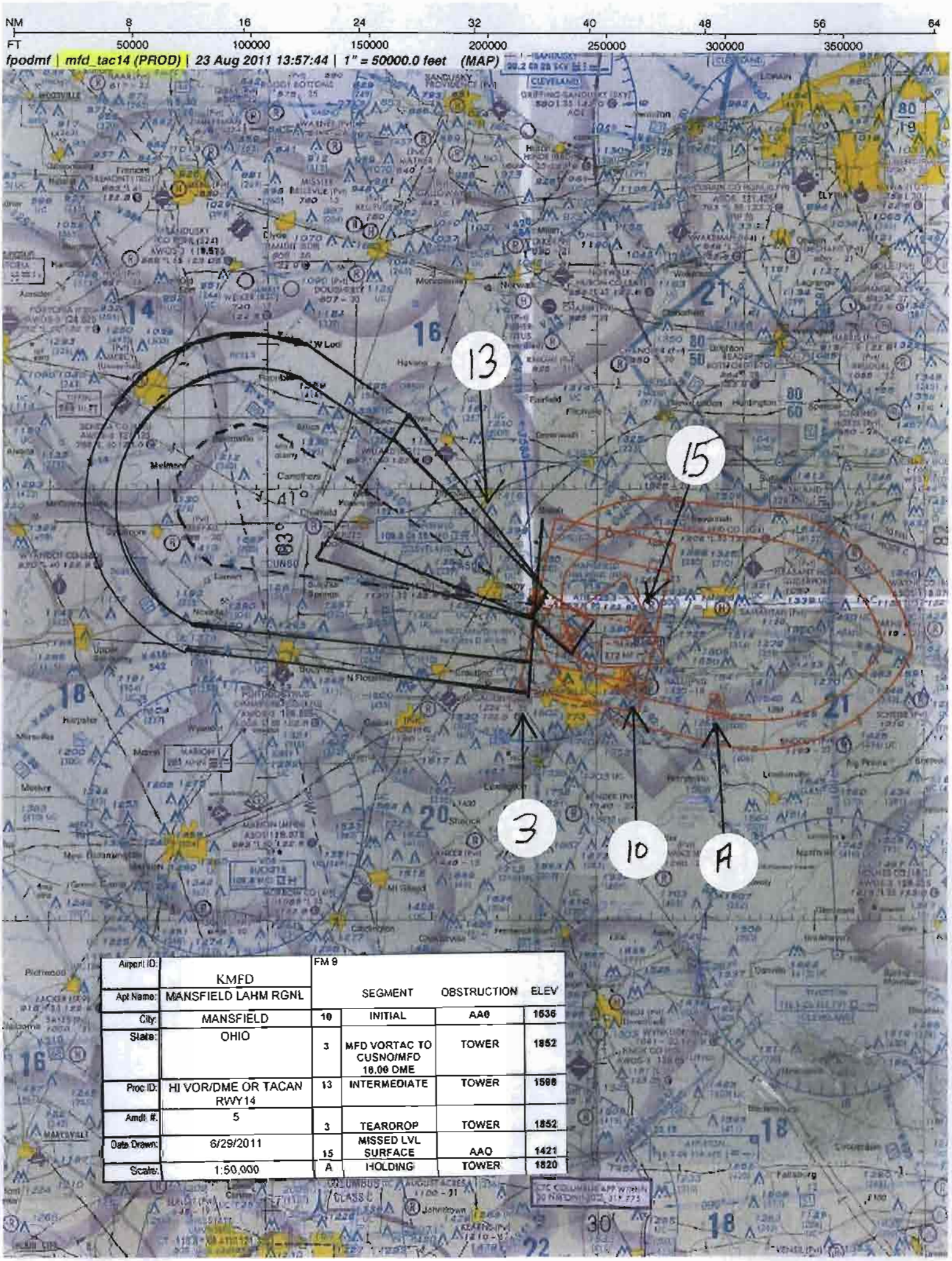

NM 14 28 42 56 70 84 98 112 126 140
FT 86000 172000 258000 344000 430000 516000 602000 688000 774000 860000
fpodmf | mfd_rodfed (PROD) | 29 Jun 2011 14:19:31 | 1" = 85501.1 feet (MAP)
7
Airport ID: KMFD
Apt Name: MANSFIELD LAHM RGNL
City: MANSFIELD
State: OHIO
Proc ID: HI VOR/DME OR TACAN RWY14
Amdt #: 5
Date Drawn: 6/29/2011
Scale: 1:85501.1
FM 9
SEGMENT
OBSTRUCTION
ELEV
7
EWC VORTAC FEEDER
TOWER
2049



Airport ID:	KMFD	FM 9			
Apt Name:	MANSFIELD LAHM RGNL	No	SEGMENT	OBSTRUCTION	ELEV
City:	MANSFIELD	1	DJB VOR/DME FEEDER	TOWER	1725
State:	OHIO				
Proc ID:	HI VOR/DME OR TACAN RWY14				
Amdt #:	5				
Date Drawn:	6/29/2011				
Scale:	1:85501.1				



Airport ID:	KMFD	FM 9			
Apt Name:	MANSFIELD LAHM RGNL	No	SEGMENT	OBSTRUCTION	ELEV
City:	MANSFIELD				
State:	OHIO	A	7:1	AAO	1421
Proc ID:	HI VOR/OME OR TACAN RWY14	14	FINAL	TREES	1369
Amdt #:	5	15	MISSED LVL SURFACE	AAO	1421
		17	CIRC C	TOWER	1450
Date Drawn:	6/29/2011	18	CIRC D	TOWER	1564
Scale:	1:100,000	19	CIRC E	AAO	1669


NM 8 16 24 32 40 48 56 64
FT 50000 100000 150000 200000 250000 300000 350000
fpodmf | mfd_tac14 (PROD) | 23 Aug 2011 13:57:44 | 1" = 50000.0 feet (MAP)
13
15
3
10
A
Airport ID: KMFD
Apt Name: MANSFIELD LAHM RGNL
City: MANSFIELD
State: OHIO
Proc ID: HI VOR/DME OR TACAN RWY14
Amdt #: 5
Date Drawn: 6/29/2011
Scale: 1:50,000
FM 9
SEGMENT OBSTRUCTION ELEV
10 INITIAL AA0 1636
3 MFD VORTAC TO CUSNO/MFD 16.00 DME TOWER 1852
13 INTERMEDIATE TOWER 1588
3 TEARDROP TOWER 1852
15 MISSED LVL SURFACE AA0 1421
A HOLDING TOWER 1820

Federal Aviation Administration

Memorandum

Date: MAR 20 2012

To: NGB/A3OS
1411 Jefferson Davis Highway
Arlington, VA 22202-3231

From: Larry H. Strout, Manager, Terminal Procedures & Charting Services
Central Team, AJV-353

Reply To Attn Of: John Bickerstaff, Production Integration Coordination Team,
AJV-34

Subject: **ACTION:** Transmittal of Data

The attached FAA Form(s) for Mansfield Lahm Regional, Mansfield, OH (KMFD) are submitted for further processing. The low procedures are projected for publication on 5/31/12. Please adjust your processing accordingly.

Please return a signed copy for our files.

8260-13 HI VOR/DME OR TACAN RWY 14, AMDT 5

The attached FAA Form(s) have been forwarded to NFDC

8260-3 RNAV (GPS) RWY 14, AMDT 1
RNAV (GPS) RWY 32, ORIG-B

8260-5 VOR RWY 14, AMDT 15

8260-2

BIARD, OH REV 2*	CUNSO, OH ORIG*
HUGIX, OH REV 1	PIRCI, OH REV 1
READS, OH REV 7*	UPIYO, OH REV 1
WIMOS, OH ORIG	ZASUR, OH ORIG*
BRECK, OH ORIG (CANCEL)	NAYKI, OH ORIG (CANCEL)

REQUESTING PUBLICATION: 31 MAY 2012

Attachments

* Asterisk denotes enroute fix

UNITED STATES AIR FORCE

TACAN OR VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ROD VORTAC	BIARD/MFD 8.00 DME	070.41 / 81.32	16000
AIR VOR/DME	BIARD/MFD 8.00 DME	311.45 / 88.46	16000
EWC VORTAC	BIARD/MFD 8.00 DME	279.26 / 100.54	16000
DJB VOR/DME	BIARD/MFD 8.00 DME	205.69 / 33.14	16000
BIARD/MFD 8.00 DME (IAF)	MFD VORTAC	285.00 / 8.00	14000
MFD VORTAC (IAF)	CUNSO/MFD 18.00 DME	285.00 / 18.00	10000
ZASUR/MFD 6.00 DME (IF)	MFD VORTAC	129.73 / 6.00	2400

MISSED APPROACH

3.56 DME FIX

CLIMB TO 1700 THEN CLIMBING LEFT TURN TO 4000 ON MFD VORTAC R-105 TO BIARD/MFD 8.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 285.11 INBOUND.
CHART FAS OBST: 1369 TREES 404922N/0823240W
OBST: 1421 AAO 405206N/0823527W
CHART VDP AT 2.52 DME;
DISTANCE VDP TO THLD 1.04 MILES.
MFD VORTAC TO RW14: 2.94/42

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. TEARDROP R-285 OUTBOUND, R-130 INBOUND, 2900 FT. WITHIN 22 MI. OF MFD VORTAC (IAF).
3. FAC 129.73 FAF MFD VORTAC DIST FAF TO MAP ____ THLD 3.56
4. MIN. ALT BIARD 16000, MFD VORTAC 14000, CUNSO 10000, ZASUR 2900, MFD VORTAC 2400
8. MSA FROM: MFD VORTAC 3000, ESA W/IN 100 NM 4000

MAG VAR 3W EPOCH YEAR: 1965

MINIMUMS

TAKEOFF: SEE 8260-15A FOR THIS AIRPORT ALTERNATE: STANDARD @

CATEGORY	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-14							1620	1	374	1620	1	374	1620	1	374
CIRCLING							1760	1 1/2	463	1880	2	583	2000	2 1/2	703

NOTES:

CHART NOTE: VDP NA WITH MARION ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARION ALTIMETER SETTING AND INCREASE ALL MDA 120 FEET AND S-14 CAT C/D/E VISIBILITY TO 1 3/8 MILE AND CIRCLING CAT D TO 2 1/4 MILE, CAT E TO 3 MILE.

@ CAT E 800-2 1/2
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1297 THRE: 1246 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP
MANSFIELD, OH	MANSFIELD LAHM RGNL	MFD	HI VOR/DME OR TACAN RWY 14, AMDT 5	AMDT 4
				DATE 05/28/1992

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] ZOB, MFD APP CON, MFD ATCT, AMGR

FLIGHT CHECKED BY

NAME	FIFO	DATE:
MICHAEL AARON GREENWOOD	FIOG	12/15/2011

DEVELOPED BY

NAME	FIFO	DATE:
DEANNA M. FIELDS	AJV-353	06/15/2011

APPROVED BY

NAME:	FIFO	DATE:
		MAR/2[illegible]2012

CHANGES:

RECOMMENDED BY: _____
GREGORY YAMAMOTO, MANAGER, AJV-353

1. TERMINAL ROUTES:
"CRL VORTAC TO BIARD 8 DME, COURSE AND DISTANCE 150/87" CHANGED TO "CRL VORTAC TO BIARD/MFE 8.00 DME, COURSE AND DISTANCE 149.74/86.24, ALTITUDE 16000".
"ROD VORTAC TO BIARD 8 DME, COURSE AND DISTANCE 067/81" CHANGED TO "ROD VORTAC TO BIARD/MFE 8.00 DME, COURSE AND DISTANCE 070.41/81.32, ALTITUDE 16000".
"AIR VORTAC TO BIARD 8 DME, COURSE AND DISTANCE 308/88" CHANGED TO "AIR VORTAC TO BIARD/MFE 8.00 DME, COURSE AND DISTANCE 311.45/88.46, ALTITUDE 16000".
"EWC VORTAC TO BIARD 8 DME, COURSE AND DISTANCE 279/101" CHANGED TO "EWC VORTAC TO BIARD/MFE 8.00 DME, COURSE AND DISTANCE 279.26/100.54, ALTITUDE 16000".
"DJB VORTAC TO BIARD 8 DME, COURSE AND DISTANCE 206/34" CHANGED TO "DJB VORTAC TO BIARD/MFE 8.00 DME, COURSE AND DISTANCE 205.69/33.14, ALTITUDE 16000".
"BIARD 8 DME TO MFD VORTAC , COURSE AND DISTANCE 285/8, ALTITUDE 2500" CHANGED TO "BIARD 8 DME TO MFD VORTAC, COURSE AND DISTANCE 285.00/8.00, ALTITUDE 14000".
ADDED - ZASUR/MFD 6.00 DME TO MFD VORTAC, COURSE AND DISTANCE 129.73/6.00, ALTITUDE 2400.
ADDED - MFD VORTAC TO CUNSO/MFD 18.00 DME, COURSE AND DISTANCE 285.00/18.00, ALTITUDE 10000.
2. DIST FAF TO MAP CHANGED FROM "3.5 TO 3.56".
3. "R- 310/5 DME" CHANGED TO "310/MFD 5.6 DME".

REASONS:

1-3. PROCEDURE EVALUATION.
4. 8260.19D, CHAPTER 2, SECTION 10, PAR 264.
5-6. ADDED BACK UP ALTIMETER.
7. 8260.19D, CHAPTER 8, PAR 854.
8. HATH IS LESS THAN 400 FEET AND THE 40:1 DOES NOT REACH THE ROC SURFACE 1000 FEET BELOW CLEARANCE LIMIT.
9-11. 8260.3B CHG 20 CHAPTER 3.
12. TO ALIGN WITH OTHER PUBLISHED PROCEDURE AT THE AIRPORT.
13. NO 20:1 PENETRATION.
14-15. PROCEDURE ALIGNMENT.
16. IAW 8260.19C PARA 853B.
17. 8260.3B CHG 19, CHAPTER 2, PARA 235.

PDF EDIT(S):
ADDED ZASUR 2900 TO LINE 4.
SEE 8260-10

QUALITY CHECKED

UNITED STATES AIR FORCE

TACAN OR VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1297 THRE: 1246	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
MANSFIELD, OH	AIRPORT NAME: MANSFIELD LAHM RGNL	MFD	HI VOR/DME OR TACAN RWY 14, AMDT 5	AMDT: 4
				DATED: 05/28/1992

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:

ENDORSED BY

NAME:	FIFO	DATE:

CHANGES:

CHANGES CONT.

4. " MFD 11 DME" CHANGED TO CUNSO/MFD 18.00 DME". 5. DELETED - CLEVELAND-HOPKINS ALTIMETER SETTINGS MINIMUMS. 6. DELETED - CHART NOTE: WHEN CONTROL TOWER CLOSED USE CLEVELAND-HOPKINS ALTIMETER SETTING. 7. ADDED- BACK UP ALTIMETER (KMNN) AND ALL NOTES. 8. MISSED APPROACH INSTRUCTION: "CLIMBING LEFT TURN TO 4000 VIA MFD R-105 TO BIARD 8 DME AND HOLD" CHANGED TO " CLIMB TO 1700 THEN CLIMBING LEFT TURN TO 4000 ON MFD VORTAC R-105 TO BIARD/MFD 8.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000". 9. S-14 CATS C/D/E HAA 344 CHANGED TO HATH 374. 10. S-14 CAT D/E VIS CHANGED FROM 1 1/4 TO 1. 11. CIRCLING CAT E VIS CHANGED FROM 2 1/4 TO 2 1/2. 12. MSA - "FOUR 90 DEGREE SECTORS" CHANGED TO ONE "360 DEGREE SECTOR". 13. ADDED "CHART VDP AT 2.33 DME," AND DISTANCE VDP TO THLD 1.23 MILES". 14. FAC CHANGED FROM "130 TO 129.73". 15. MISS APPROACH: HOLD INBOUND CHANGED FROM "258 TO 285.11". 16. ADDED ALTERNATE MINS NOTES. 17. TEARDROP CHANGED FROM "TEARDROP 285 OUTBOUND, RT AT 11 DME, 130 INBOUND WITHIN 15 MILES OF MFD VORTAC" TO "TEARDROP R-285 OUTBOUND, R-130 INBOUND, 2900 FT. WITHIN 22 MI. OF MFD VORTAC (IAF)".

REASONS:

REASONS CONT.

03/15/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/15/11.
1. DELETED CRL VORTAC FEEDER PER FLIGHT INSPECTION.

QUALITY CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	ROD VORTAC	BIARD/MFD 8.00	3. TOWER (39-001751)	404550.00N/0823704.00W	1852 (5D)	1000	AT13148	16000
		DME	4. TERRAIN	402212.00N/0834309.00W	1545 (1500)		AS1500	3000
FEEDER	AIR VOR/DME	BIARD/MFD 8.00	5. TOWER (39-000899)	400340.00N/0804508.00W	2025 (1D)	1000	AT12975	16000
		DME	6. TERRAIN	402405.00N/0813219.00W	1447 (1400)		AS1500	2900
FEEDER	EWC VORTAC	BIARD/MFD 8.00	7. TOWER (39-000439)	405324.00N/0811611.00W	2049 (4D)	1000	AT12951	16000
		DME	8. TERRAIN	404400.30N/0821350.80W	1390 (1400)		AS1500	2900
FEEDER	DJB VOR/DME	BIARD/MFD 8.00	1. TOWER (39-000549)	405006.00N/0822103.00W	1725 (4D)	1000	AT13275	16000
		DME	9. TERRAIN	404918.00N/0822027.00W	1315 (1300)		AS1500	2800
INITIAL	BIARD/MFD 8.00	MFD VORTAC	10. AAO	404642.00N/0822706.00W	1536 (4E)	1000	AT11464	14000
	DME		11. TERRAIN	404653.40N/0822753.00W	1359 (1400)		AS1000	2400
INITIAL	MFD VORTAC	CUNSO/MFD 18.00	3. TOWER (39-001751)	404550.00N/0823704.00W	1852 (5D)	1000	AT7148	10000
		DME	12. TERRAIN	405206.00N/0823530.00W	1217 (1200)		AS1500	2700
INTERMEDIATE	ZASUR/MFD 6.00	MFD VORTAC	13. TOWER (39-004001)	405645.57N/0823948.28W	1598 (4D)	500	AT302	2400
	DME		12. TERRAIN	405206.00N/0823530.00W	1217 (1200)		AS1000	2200
2. TEARDROP COLLOCATED	MFD VORTAC	22 MI	3. TOWER (39-001751)	404550.00N/0823704.00W	1852 (5D)	1000		2900
			12. TERRAIN	405206.00N/0823530.00W	1217 (1200)		AS1000	2200
3. MISSED APPROACH MAP:	3.56 DME FIX	BIARD/MFD 8.00				ASC		4000
		DME	15. AAO	405015.00N/0822612.00W	1421 (4E)	1000		2500
ELEV:	1370		16. TERRAIN	405248.00N/0822918.00W	1014 (1000)		AS1500	2500

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	463
CATEGORY D	2.3 NM	550	583
CATEGORY E	4.5 NM	550	703

17. TOWER (39-000590)	404751.00N/0823035.00W	1450 (1A)	300		1760
18. TOWER (39-020141)	404709.99N/0823330.88W	1564 (1A)	300		1880
19. AAO	404418.00N/0823239.00W	1669 (2C)	300	XP20	2000

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: MFD VORTAC

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (39-020129)	030/ 13.9	1949 (5D)	3000					

CITY AND STATE	ELEVATION: 1297 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MANSFIELD, OH	MANSFIELD LAHM RGNL	MFD	HI VOR/DME OR TACAN RWY 14, AMDT 5	AGL

FAA Form 8260 - 9 / April 2006 (Computer Generated)

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
MFD TOWER		N W S	SOURCE: KMFD / KMNN
	OTHER: ASOS	F A A	DISTANCE: 0 / 27.82
		A / C	HOURS REMOTE OPERATION: 24 / BACKUP
SATISFACTORY ON:			
X V H F X U H F H F	LOCATION: KMFD		ADJUSTMENT: 0 / 0

4. MONITOR STATUS		
PRIMARY NAVAID: MFD VORTAC		
MONITOR POINT: MOCC		
HRS OPTN:	CAT 1	24
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	MALSR 32 (PCL)
X	HIRL 05 (PCL), 23 (PCL), 14 (PCL), 32 (PCL)
	MIRL
X	REIL 05 (PCL), 23 (PCL)
	TDZ
	C/LINE
X	OTHER (SPECIFY) PAPI-4L 05, 23, 14

6. RUNWAY MARKINGS	
BASIC	
ALL WEATHER	PIR-F 14, 32
INSTRUMENT	NPI-F 05, 23

7. RUNWAY VISUAL RANGE	
APPROACH	32
MIDFIELD	
ROLL OUT	

8. GLIDE PATH		
GP ANGLE:		ELEV RWY THRESHOLD:
DISTANCE FROM RWY:		ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
		ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY:	DATE:
DEANNA M. FIELDS	06/15/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS PARAGRAPH 289 APPLIED TO 1421 AAO
405206N/0823527W

KMFD AND KMNN ASOS ON SERVICE A.
ADJUSTMENT: 106.55 FT

VGSI DATA: 3.00/42.1

NO ADDITIONAL AIRSPACE REQUIRED.

RASS PRESSURE PATTERNS SAME
KMFD 1296.8, KMNN 993.4
RA=106.47

VEGETATION: 100 FT TREES PER FPT.

#20 - XP: ADDED 20 FEET ADJUSTMENT TO ALIGN MINIMUMS WITH CURRENT PUBLISHED PROCEDURE.

QUALITY CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL	MFD VORTAC	3.56 DME FIX	14. TREES	404922.00N/0823240.00W	1369 (2C)	250		1620

3. MISSED APPROACH									
	MAP:								
	ELEV:								

4. CIRCLING AREA	DISTANCE	REQUIRED	ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

HT. ABV. ARPT.

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE	ELEVATION: 1297 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MANSFIELD, OH	MANSFIELD LAHM RGNL	MFD	HI VOR/DME OR TACAN RWY 14, AMDT 5	AGL

CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ NWS OTHER: ☐ FAA ☐ A/C	SOURCE: DISTANCE: HOURS REMOTE OPERATION:
☐ VHF ☐ UHF ☐ HF	LOCATION:	ADJUSTMENT:

4. MONITOR STATUS		
	PRIMARY NAVAID:	
	MONITOR POINT:	
HRS OPTN:	CAT 1	
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	
☐	ALS
☐	(S) SALS
☐	MALS
☐	HIRL
☐	MIRL
☐	REIL
☐	TDZ
☐	C/LINE
☐	OTHER (SPECIFY)

6. RUNWAY MARKINGS	
	BASIC
	ALL WEATHER
	INSTRUMENT

7. RUNWAY VISUAL RANGE	
	APPROACH
	MIDFIELD
	ROLL OUT

8. GLIDE PATH		
	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING			
	☐	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	☐	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

RADIO FIX AND HOLDING DATA RECORD

NAME: BIARD **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 405026.68N/0822508.81W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MANSFIELD	MFD	VORTAC	L	105.00	102.00	8.00	8.00		4000	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	MFD	VORTAC	105.11	285.11	R		10	3000	17500	8	20

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (39-003494)	404450.00N/0821854.00W	1820	4D
1	310	TOWER (39-003494)	404450.00N/0821854.00W	1820	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	HI VOR/DME OR TACAN RWY 14	KMFD	MANSFIELD	OH (US)

REMARKS:
RESTRICTED - MILITARY ONLY.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI VOR/DME OR TACAN RWY 14	1	1	KMFD	MANSFIELD	OH (US)

REQUIRED CHARTING: MILITARY IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
1. FAC 1: DIST FROM FAC 8 NM ADDED.
2. MRA CHANGED FROM "3000 TO 4000"
3. HOLDING: LEG LENGTH CHANGED FROM "16 TO 10".
4. RAD/CRS/BRG CHANGED FROM "105.00 TO 105.11" AND CRS INBOUND CHANGED FROM "285.00 TO 285.11".
5. MAX TEMPLATE CHANGED FROM "16 TO 20".
6. CONTROLLING OBSTRUCTION: UPDATED.
7. CLIMB-IN-HOLD DATA ADDED.
8. REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED ADDED.
9. HOLDING RESTRICTIONS:HOLDING LIMITED TO ESTABLISHED PATTERN ADDED.
10. REQUIRED CHARTING: ADDED MILITARY IAP, CONTROLLER.
11. FIX USE: UPDATED.

DEVELOPED BY: **DATE:** 06/15/2011 **OFFICE:** AJV-353 **NAME:** DEANNA FIELDS

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: MFD ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CUNSO **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 405549.32N/0825841.23W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MANSFIELD	MFD	VORTAC	L	285.00	282.00	18.00	18.00		10000	17500

REMARKS:
RESTRICTED - MILITARY ONLY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-VOR/DME OR TACAN RWY 141			KMFD	MANSFIELD	OH (US)

REQUIRED CHARTING: MILITARY IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 12/15/2011

DEVELOPED BY: **DATE:** 06/15/2011 **OFFICE:** AJV-353 **NAME:** DEANNA FIELDS

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: MFD ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZASUR **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 405542.23N/0824148.12W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MANSFIELD	MFD	VORTAC	L	309.73	306.73	6.00	6.00		2900	17500

REMARKS:
RESTRICTED - MILITARY ONLY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-VOR/DME OR TACAN RWY 14			KMFD	MANSFIELD	OH (US)

REQUIRED CHARTING: MILITARY IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 12/15/2011

DEVELOPED BY: **DATE:** 06/15/2011 **OFFICE:** AJV-353 **NAME:** DEANNA FIELDS

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: MFD ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: MANSFIELD VORTAC **STATE:** OH **COUNTRY:** US

LATITUDE/LONGITUDE: 405206.98N/0823527.47W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MANSFIELD	MFD	VORTAC	L						2900	17500

FIX RESTRICTIONS:
TACAN AZIMUTH UNUSABLE 075 CW 095.

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	MFD	VORTAC	152.00	332.00	L	1		3000	6000	4	5
2	NE	MFD	VORTAC	044.06	224.06	R	1		2900	6000	4	5
3	NW	MFD	VORTAC	310.00	130.00	L	1		3000	6000	4	5
4	W	MFD	VORTAC	265.00	085.00	R	1		2900	6000	4	5
5	SW	MFD	VORTAC	227.72	047.72	R	1 1/2		18000	24000	16	19
6	NE		WP	044.06	224.06	R		4	2900	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-001751)	404550.00N/0823704.00W	1852	5D
2	200	TOWER (39-000306)	405625.00N/0822849.00W	1540	2C
3	200	TOWER (39-004001)	405645.57N/0823948.28W	1598	4D
4	200	AAO	404703.00N/0823636.00W	1628	4E
5	265	TOWER (39-001751)	404550.00N/0823704.00W	1852	5D
6	200	AAO	404803.00N/0823554.00W	1549	4E

REASON FOR NONSTANDARD HOLDING:
PAT 3 - SIMULTANEOUS DPS FROM GALION
PAT 1 - AVOID MANSFIELD LAHM MUNI

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	OBRLN			KBKL	CLEVELAND	OH (US)
DP	OBRLN			KCGF	CLEVELAND	OH (US)
DP	OBRLN			KCLE	CLEVELAND	OH (US)
DP	OBRLN			K1G1	ELYRIA	OH (US)
DP	OBRLN			K1G5	MEDINA	OH (US)
DP	OBRLN			K7G8	MIDDLEFIELD	OH (US)
DP	OBRLN			K2G1	PAINESVILLE	OH (US)
DP	OBRLN			KLNN	WILLOUGHBY	OH (US)
EN ROUTE	V133					(US)
EN ROUTE	V416					(US)
EN ROUTE	V5					(US)
EN ROUTE	V542					(US)
EN ROUTE	V8					(US)
EN ROUTE	V92					(US)
IAP	NDB RWY 19			K3G4	ASHLAND	OH (US)
IAP	VOR-A		4	K3G4	ASHLAND	OH (US)
IAP	VOR OR GPS RWY 22			K17G	BUCYRUS	OH (US)
IAP	RNAV (GPS) RWY 23			KGQQ	GALION	OH (US)
IAP	RNAV (GPS) RWY 5		6	KGQQ	GALION	OH (US)
IAP	VOR RWY 23		2	KGQQ	GALION	OH (US)
IAP	OBRLN			KLPR	LORAIN/ELYRIA	OH (US)
IAP	ILS OR LOC RWY 32		3	KMFD	MANSFIELD	OH (US)
IAP	NDB RWY 32		3	KMFD	MANSFIELD	OH (US)
IAP	VOR RWY 14			KMFD	MANSFIELD	OH (US)
IAP	VOR RWY 32		3	KMFD	MANSFIELD	OH (US)
IAP	RNAV (GPS) RWY 25			KMNN	MARION	OH (US)
IAP	VOR OR GPS-A			K4I9	MOUNT GILEAD	OH (US)
IAP	RNAV (GPS) RWY 10			K4I3	MOUNT VERNON	OH (US)
IAP	RNAV (GPS) RWY 27			KPCW	PORT CLINTON	OH (US)
IAP	VOR-A			K12G	SHELBY	OH (US)
IAP	RNAV (GPS) RWY 24			K16G	TIFFIN	OH (US)
IAP	VOR/DME OR GPS-A		1	K8G1	WILLARD	OH (US)
IAP	ZABER		5	KLNN	WILLOUGHBY	OH (US)
STAR	ZABER		5	KBKL	CLEVELAND	OH (US)

QUALITY CHECKED

STAR	ZABER	5	KCGF	CLEVELAND	OH (US)
STAR	ZABER	5	KCLE	CLEVELAND	OH (US)
STAR	ZABER	5	K1G1	ELYRIA	OH (US)
STAR	ZABER	5	KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER	5	K1G5	MEDINA	OH (US)
STAR	ZABER	5	K7G8	MIDDLEFIELD	OH (US)
STAR	ZABER	5	K2G1	PAINESVILLE	OH (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19 **DATE OF REVISION:** 08/25/2011

REASON FOR REVISION:
ADDED HOLDING PAT 6.

DEVELOPED BY: **DATE:** 03/03/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (DAVID DANNER)

APPROVED BY: **DATE:** 06/14/2011 **OFFICE:** AJV-353 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: MFD APP CON, CLE APP CON
OTHER:

QUALITY CHECKED